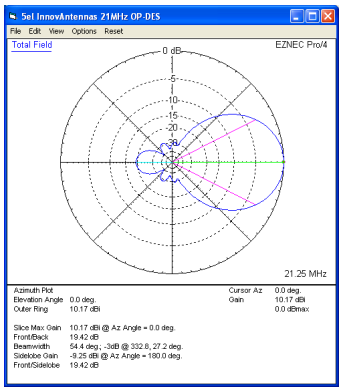




Sales price £529.95

Sales price without tax £441.63
Tax amount £88.33

A Wideband 21MHz OP-DES Yagi

Description

A 5 element wideband 21MHz OP-DES (Opposing Phase Driven Element System) Yagi

The OP-DES is the newest in patent technology produced by InnovAntennas and is specifically designed for maximum performance, wide-band HF applications. Read more about the OP-DES Yagi Here. InnovAntennas use the latest in Electromagnetic Design Technology to ensure the very best results and the OP-DES Yagi is proof of that!

This antenna has a flat SWR curve covering 21.000 - 21.450MHz at 1.1:1 SWR.

Performance

Gain: 10.17dBi @ 21.250MHz

F/B: 19.42dB @ 21.250MHz

Peak Gain: 10.23dBi

Gain at 15m above Ground: 15.29dBi

Peak F/B: 20.02dB

Power Rating: 5kw

SWR: Below 1.1:1 from 21.000MHz to 21.450MHz

Boom Length: 8.5m

Stacking Distance: 7.5 - 11.5m (10m recommended)

2 Stacked Gain @ 10m spacing: 12.95dBi19.42dB

2 Stacked F/B: 26.87dB

2 Stacked Gain @ 10m Spacing 15m above ground: 17.76dBi

Weight: 12.74KG / 28.1LB

Turning Radius: 5.494m / 18ft

Wind Loading: 0.53 Square Metres / 5.67 Square feet

Wind Survival: 164KPH / 102MPH - **A 125MPH (HD) version of this antenna available upon request**

Other options available if higher wind loading/survival is required.

Specification

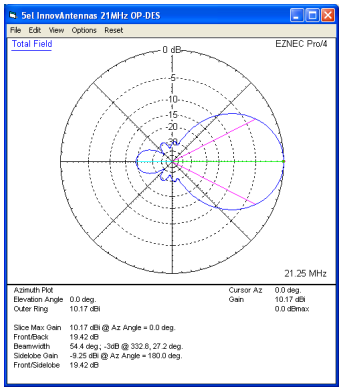
This antenna is made 3/4 inch (19.05mm) element sections in the centre of each element, followed by 5/8 inch (15.88mm) and 1/2 inch (12.7mm) outer elements with the OP-DES end sections 3/8 inch (9.525mm). The antenna has fully insulated elements which will ensure continuous, high performance for many years to come. Boom to mast brackets are included with all antennas which will support 2 inch (50mm) masts. Boom is 1.5 inch square 16SWG aluminum.

OTHER TAPER SCHEDULES ARE AVAILABLE FOR THIS ANTENNA, CALL OR EMAIL FOR DETAILS

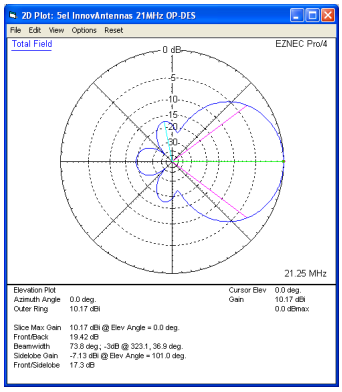
Our antennas are constructed with the best quality materials in order that the best mechanical construction can be achieved, not the cheapest and most profitable! Even a digital caliper is used (with an accuracy of .01mm) to measure the elements during production to ensure they are within 0.2mm of what they should be, this ensures they work as well as our software model predicts.

Note: Much development time has gone into our antennas, not just on basic electromagnetic design, we are able to model the effect of insulators, booms and other objects to ensure the make up of our antennas have least effect on performance and pattern degradation. More information can be found here

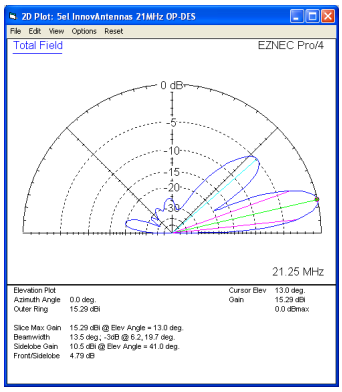
- **Marine grade Stainless Steel Fittings***
- **Original Stauff Insulation clamps**
- **Mill finished boom and elements for highest levels of accuracy**



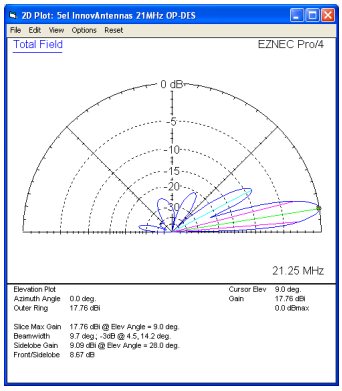
Azimuth Plot



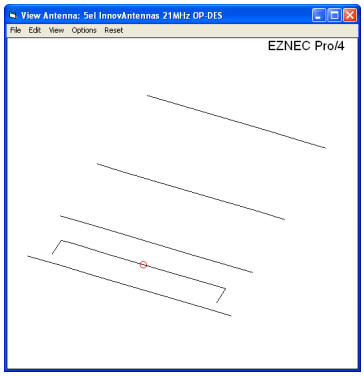
Elevation Plot



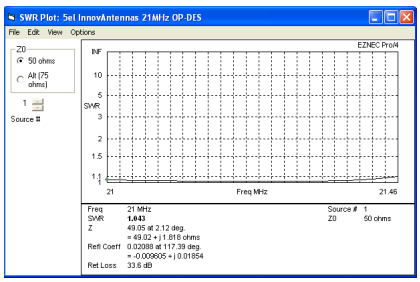
Single 5 element OP-DES up 15m above ground



2 x 5el OP-DES Yagi 10m apart with the bottom antenna 15m above ground



The 5el 21MHz OP-DES Element Layout - how the OP-DES Yagi looks



SWR

Manufactured the right way, not the cheapest way!

* where possible marine grade stainless steel components are used.